

AMENDMENTS TO THE CLAIMS

1. (currently amended): A neutron detection device, said device comprising:
a sensing mechanism, said sensing mechanism having a layer of boron carbide semiconductor
wherein the boron carbide layer is an electrically active part of said detection device; and a
monitoring device, wherein said monitoring device records ~~said~~ changes in said boron carbide
layer detected by said sensing mechanism.

2-13. (original)

14-21. (previously added)

22-25. (withdrawn).